

Contents of Volume 62

Number 1

- 1 Editorial
K. ATTENBOROUGH (UK)
- 3 Active noise control in ducts in presence of standing waves. Its influence on feedback effect
J. ROMEU, X. SALUEÑA, S. JIMÉNEZ, R. CAPDEVILA & L. COLL (Spain)
- 15 Development of audible locating signals for use at pedestrian crossings
G.R. WATTS, N.S. GODFREY & T.A. SAVILL (UK)
- 29 The contribution of long flanking paths to sound transmission in buildings
R.J.M. CRAIK (UK)
- 47 Narrow band active control of sound radiated from a baffled beam using local volume displacement minimization
M.B. ZAHUI, K. NAGHSHINEH & J.W. KAMMAN (USA)
- Technical note*
- 65 The utilisation of an adaptive 3D Gauss-Legendre quadrature in the simulation of sound propagation outdoors for sources with variable power distribution
S. ABDULLAH & M.J.M. NOR (Malaysia)
- 85 Book Review
- 87 Announcement
- I Calendar

Number 2

Special Issue: **Spatial Impression in Concert Halls**

- 89 Guest editorial
JOHN BRADLEY (Canada)
- 91 Spatial responsiveness in concert halls and the origins of spatial impression
A.H. MARSHALL (New Zealand) & M. BARRON (UK)
- 109 The role of reflections from behind the listener in spatial impression
M. MORIMOTO, K. IIDA & K. SAKAGAMI (Japan)
- 125 Arrival direction of late sound and listener envelopment
H. FURUYA, K. FUJIMOTO, C. YOUNG JI & N. HIGA (Japan)

Contents of Volume 62

Number 1

- 1 Editorial
K. ATTENBOROUGH (UK)
- 3 Active noise control in ducts in presence of standing waves. Its influence on feedback effect
J. ROMEU, X. SALUEÑA, S. JIMÉNEZ, R. CAPDEVILA & L. COLL (Spain)
- 15 Development of audible locating signals for use at pedestrian crossings
G.R. WATTS, N.S. GODFREY & T.A. SAVILL (UK)
- 29 The contribution of long flanking paths to sound transmission in buildings
R.J.M. CRAIK (UK)
- 47 Narrow band active control of sound radiated from a baffled beam using local volume displacement minimization
M.B. ZAHUI, K. NAGHSHINEH & J.W. KAMMAN (USA)
- Technical note*
- 65 The utilisation of an adaptive 3D Gauss-Legendre quadrature in the simulation of sound propagation outdoors for sources with variable power distribution
S. ABDULLAH & M.J.M. NOR (Malaysia)
- 85 Book Review
- 87 Announcement
- I Calendar

Number 2

Special Issue: **Spatial Impression in Concert Halls**

- 89 Guest editorial
JOHN BRADLEY (Canada)
- 91 Spatial responsiveness in concert halls and the origins of spatial impression
A.H. MARSHALL (New Zealand) & M. BARRON (UK)
- 109 The role of reflections from behind the listener in spatial impression
M. MORIMOTO, K. IIDA & K. SAKAGAMI (Japan)
- 125 Arrival direction of late sound and listener envelopment
H. FURUYA, K. FUJIMOTO, C. YOUNG JI & N. HIGA (Japan)

- 137 The effect of late reflections from above and behind on listener envelopment
P. EVJEN, J.S. BRADLEY & S.G. NORCROSS (Canada)
- 155 A new objective measure for evaluation of listener envelopment focusing on the spatial balance of reflections
T. HANYU & S. KIMURA (Japan)
- 185 Late lateral energy fractions and the envelopment question in concert halls
M. BARRON (UK)
- 203 A system for measuring the directional room acoustical parameters
H. OKUBO, M. OTANI, R. IKEZAWA, S. KOMIYAMA & K. NAKABAYASHI (Japan)
- 217 Synthetic soundfields for the rating of spatial perceptions
J. BECKER & M. SAPP (Germany)
- I Calendar

Number 3

- 229 Coupled vibration analysis of fluid-filled cylindrical shells using the wave propagation approach
X.M. ZHANG, G.R. LIU & K.Y. LAM (Singapore)
- 245 Control of auditory distance perception based on the auditory parallax model
H.-Y. KIM, Y. SUZUKI, S. TAKANE & T. SONE (Japan)
- 271 A critical review of some traffic noise prediction models
C. STEELE (Australia)
- 289 Natural frequencies of edge restrained tapered isotropic and orthotropic rectangular plates with a central free hole
L.G. NALLIM & R. O. GROSSI (Argentina)
- 307 Sound transmission through single, double and triple glazing. Experimental evaluation
A.J.B. TADEU & D.M.R. MATEUS (Portugal)
- Technical note*
- 327 A scale model experiment for the study of sound propagation in urban areas
J. PICAUT & L. SIMON (France)
- I Calendar

Number 4

- 341 FEM/BEM analysis of diesel piston-slap induced ship hull vibration and underwater noise
H. ZHENG, G.R. LIU, J.S. TAO & K.Y. LAM (Singapore)
- 359 Sound level forecasting for city-centers.
Part 1: sound level due to a road within an urban canyon
E. WALERIAN, R. JANCZUR & M. CZECHOWICZ (Poland)
- 381 Insertion loss of a helmholtz resonator in the intake system of internal combustion engines: an experimental and computational investigation
A. SELAMET, V. KOTHAMASU & J.M. NOVAK (USA)

- 411 Further assessment of the coupling load decomposition technique for the vibration analyses of planar coupled structures
L. CHENG & M. HATAM (Canada)
- 429 Measurement of sound radiation efficiency by the discrete calculation method
N. HASHIMOTO (Japan)
- Technical note*
- 447 Experimental study of the absorption characteristics of some porous fibrous materials
C.-N. WANG & J.-H. TORNG (Taiwan)
- I Calendar

Number 5

- 461 Sound levels forecasting for city-centers
Part II: effect of source model parameters on sound level in built-up area
E. WALERIAN, R. JANCZUR & M. CZECHOWICZ (Poland)
- 493 Sound levels forecasting for city-centers
Part III: a road lane structure influence on sound level within urban canyon
R. JANCZUR, E. WALERIAN & M. CZECHOWICZ (Poland)
- 513 Optimisation of an active control system to reduce the exhaust noise radiated by a small generator
M. CUESTA & P. COBO (Spain)
- 527 Frequency analysis of cylindrical panels using a wave propagation approach
X.M. ZHANG, G.R. LIU & K.Y. LAM (Singapore)
- 545 A modified Itakura speech distortion measure based on auditory properties
CHEN GUO, HU XIULIN, ZHANG YUNYU & ZHU YAO TING (PR China)
- 555 An in situ transfer function technique for the assessment of the acoustic absorption of materials in buildings
G. DUTILLEUX (France), T.E. VIGRAN & U.R. KRISTIANSEN (Norway)
- 573 Sound radiation of a thin infinite plate in light and heavy fluids subject to multi-point excitation
J.S. TAO, G.R. LIU & K.Y. LAM (Singapore)
- Technical note*
- 589 A case study of flanking transmission through double structures
V. HONGISTO (Finland)
- I Calendar

Number 6

- 601 Prediction and evaluation of impact sound transmission in apartment building structures by statistical energy analysis (SEA)
M.J. KIM, H.S. KIM & J.Y. SOHN (South Korea)
- 617 A method for measuring oblique incidence absorption coefficient of absorptive panels by stretched pulse technique
K. KIMURA & K. YAMAMOTO (Japan)

- 633 An experimental study on noise indices in air conditioned offices
U. AYR, E. CIRILLO & F. MARTELOTTA (Italy)
- 645 Sound levels forecasting for city-centers
Part IV. Vehicles stream parameters influence on sound level distribution within a canyon street
R. JANCZUR, E. WALERIAN & M. CZECHOWICZ (Poland)
- 665 The effect of consolidation on the acoustic properties of loose rubber granulates
K.V. HOROSHENKOV & M.J. SWIFT (UK)
- 691 Vibratory characteristics of multi-step beams with an arbitrary number of cracks and concentrated masses
Q.S. LI (Hong Kong)
- 707 The application of boundary element evaluation on a silencer in the presence of a linear temperature gradient
C.-N. WANG, Y.-N. CHEN & J.-Y. TSAI (Taiwan)
- 717 Loudspeaker failure modes and error correction techniques
T.S. HSU & K.A. POORNIMA (Singapore)
- 735 Control of sound transmission through an aperture using active sound absorption techniques: a theoretical investigation
G.W. EMMS & C. FOX (New Zealand)

I Calendar

Number 7

- 749 Neural network predictions of speech levels in university classrooms
J. NANNARIELLO (Australia), M. HODGSON (Canada) & F.R. FRICKE (Australia)
- 769 Sound propagation attenuation in lined annular-variable area ducts using bulk-reacting liners
M.E. ALY & M.T.S. BADAWY (Egypt)
- 779 A small resistive axisymmetric object in the presence of an underwater point-source field
P.E. ERGATIS (Greece)
- 793 Acoustic properties of rigid-frame porous materials — an engineering perspective
M.J. BRENNAN (UK) & W.M. TO (Hong Kong)
- 813 Benefits of Vac Damps over adhesive bonded damping pads for impact noise control
A. ROSS, M. AMRAM & G. OSTIGUY (Canada)
- 831 Insertion loss of personal protective clothing
V.B. BIESEL & K.A. CUNEFARE (USA)
- 841 Estimation of object location and radius of curvature using ultrasonic sonar
A.Ş. SEKMEN (USA) & B. BARSHAN (Turkey)
- 867 Experimental measurement of surface mobility over a rectangular contact area subject to a uniform conphase velocity excitation
J. DAI (PR China) & J.C.S. LAI (Australia)
- 875 Acoustic simulation of rooms with boundaries of partially specular reflectivity
N. KORANY (Egypt), J. BLAUERT (Germany) & O. ABDEL ALIM (Egypt)

I Calendar

Number 8

- 889 Acoustic quality of theatres: correlations between experimental measures and subjective evaluations
A. FARINA (Italy)
- 917 The use of neural network analysis to predict the acoustic performance of large rooms
Part I. Predictions of the parameter *G* utilizing numerical simulations
J. NANNARIELLO & F.R. FRICKE (Australia)
- 951 The use of neural network analysis to predict the acoustic performance of large rooms
Part II. Predictions of the acoustical attributes of concert halls utilizing measured data
JOSEPH NANNARIELLO & FERGUS R. FRICKE (Australia)
- 979 Model-based acoustic substitution source methods for assessing shielding measures applied to trains
A.C. GEERLINGS (The Netherlands), D.J. THOMPSON (UK) & J.W. VERHEIJ (The Netherlands)
- 1001 Magneto-acoustic sensors for measurement of liquid temperature, viscosity and density
M.K. JAIN, S. SCHMIDT & C.A. GRIMES (USA)
- Short communication*
- 1013 Applicability of Thompson boundary conditions to obliquely incident acoustic waves
P.L. OSULLIVAN, R.S. REICHERT, S. BIRINGEN & J.E. HOWARD (USA)
- Technical note*
- 1019 Perturbational solution for quasi-axial propagation in a piezoelectric, continuously twisted, structurally chiral medium
A. LAKHTAKIA (USA)
- I Calendar

Number 9

- 1025 Correlations between deficiencies in power window systems influencing sound quality and some psychoacoustic metrics
T.C. LIM (USA)
- 1049 Time-domain simulation of acoustic propagation in a lined duct
R.S. REICHERT & S. BIRINGEN (USA)
- 1069 Einflußparameter für die Ergebnisse mit der Quellsimulationstechnik
P.H.T. ZANNIN (Brazil)
- 1095 Modeling of the influence of the self noise on the array gain of a sonar system
C. AUDOLY & F. LANTÉRI (France)
- 1107 Sound diffraction by a partially inclined noise barrier
B.-J. JIN, H.-S. KIM, H.-J. KANG & J.-S. KIM (South Korea)
- Technical note*
- 1123 Measurement of the dynamic stiffness of recycled rubber based railway track mats according to the DB-TL 918.071 standard
L. LAPČIK JR., P. AUGUSTIN, A. PIŠTEK & L. BUJNOCH (Czech Republic)
- I Calendar

Number 10

- 1129 Pitch detection and formant analysis of Arabic speech processing
A. CHERIF, L. BOUAFIF & T. DABBABI (Tunisia)
- 1141 Noise sources and acoustic properties of workrooms in the plants of food-processing and pharmaceutical industry
J. CZUCHAJ, A. ŚLIWINSKI & K. ŚRODECKI (Poland)
- 1157 Performance of noise barriers with random edge profiles
W. SHAO, H.P. LEE & S.P. LIM (Singapore)
- 1171 Some observations on the application of the Rayleigh-Ritz method
R.O. GROSSI & C.M. ALBARRACIN (Argentina)
- 1183 Interpretation of long term data measured continuously on long range sound propagation over sea surfaces
K. KONISHI & Z. MAEKAWA (Japan)
- 1211 Substructuring technique: improvement by means of singular value decomposition (SVD)
T.P. GIALAMAS, D.T. TSAHALIS (Greece), D. OTTE,
H. VAN DER AUWARAER (Belgium) & D.A. MANOLAS (Greece)

I Calendar

Number 11

- 1221 Vibration analysis of cross-ply laminated composite cylindrical shells using the wave propagation approach
X.M. ZHANG (Singapore)
- 1229 3D sound scattering by rigid barriers in the vicinity of tall buildings
L. GODINHO, J. ANTÓNIO & A. TADEU (Portugal)
- 1249 The effects on railway rolling noise of wave reflections in the rail and support stiffening due to the presence of multiple wheels
T.X. WU (China) & D.J. THOMPSON (UK)
- 1267 Redistribution of the low frequency acoustic modes of a room: a finite element-based optimisation method
C.I. PAPADOPOULOS (Greece)
- 1287 Measured and predicted acoustic performance of vertically louvred noise barriers
G.R. WATTS, D.C. HOTHERSALL & K.V. HOROSHENKOV (UK)

I Calendar

Number 12

- 1313 A method of evaluating surface diffusivity of rooms — I: computer modeling and field measurement
C.H. HAAN & K.W. KWON (South Korea)
- 1329 Sound scattering by a hard axisymmetric object in a double layered ocean
P.E. ERGATIS (Greece)

- 1347 Influence of water content in river sand on the self-brightening of acoustic waves
V.E. NAZAROV, A.V. RADOSTIN (Russia) & Y.A. STEPANYANTS (Australia)
- 1359 Application of time domain signal coding and artificial neural networks to passive
acoustical identification of animals
E.D. CHESMORE (UK)
- 1375 Creating low-noise environments in communication rooms
H.V. FUCHS, X. ZHA, X. ZHOU & H. DROTTLEFF (Germany)
- 1397 A neural network analysis of the effect of geometric variables on concert hall *G* values
J. NANNARIELLO & F.R. FRICKE (Australia)

I Calendar

II Contents of Volume 62

